ORIGINAL (Red)

R. D. 2 Box 282A
BROCKWAY, PKNNSYLVANIA 15824
[814] 265-1122

April 21, 1984



Powder Metal Products, Inc. 879 Washington Road ST. Marys, PA 15857

RE: Hazardous Waste Determinations
Samples #1, #2, and #3 (Note Sample Index)

Gentlemen,

A hazardous waste determination for a particular waste requires that the Chemist evaluate the U.S.E.P.A. defined characteristics of Ignitability, Corrosivity, Reactivity, and EP Toxicity. Of these, Corrosivity and EP Toxicity routinely require laboratory testing while Ignitability and Reactivity can often be determined based on knowledge of the waste material chemistry.

We have completed EP Toxicity and Corrosivity (pH) tests on the three submitted samples and summarized the analytical results on the three attached report forms. The results were obtained using the methods specified in the U.S.E.P.A. manual "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods" SW-846. The extraction procedure-toxicity test method for samples with less than .5% solids was utilized.

Review of the analytical results and comparison with the appropriate U.S.E.P.A. Standards show that all three samples exceeded the EP Toxicity allowable concentration for Selenium. Because of this, all three wastes should be disposed of as hazardous wastes. We would note that the Selenium analyses were conducted twice for each sample and the method of standards additions utilized to confirm the results obtained.

While moot due to the failure to pass the EP Toxicity test, none of the wastes were determined to be hazardous due to the characteristics of Ignitability, Corrosivity, or Reactivity.

The following matches our sample numbers to the description supplied for each waste.

Sample #1 - Thiourea, water, triton X-100, and 1600 AG MG 90

Sample #2 - Triton X-100, water, 1600 AG MG 90, and trace of PMS10E resin

Sample #3 - Rust inhibitor 4171, thiourea, water, triton X-100, and 1600 AG MG 90

Please direct any questions on this analytical work to the undersigned at 814-261-5353.



Attachments

TK/les



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REPORT OF ANALYTICAL RESULTS:				
CUSTOMER POWDER MATTEL PAO	DUCTS	DATE	4/20	84
SAMPLE DESCRIPTION #1	·	I. D. No.		
DATE SAMPLED 2 13 n-0 3/2	1984	DATE RE	CEIVED	2/13-3/29
Parameter Rest Acidity, Total Cold Acidity, Total Hot Alkalinity, Total Ammonia, Total Biological Oxygen Demand Chemical Oxygen Demand Chloride, Total Coliform, Fecal	ult Parameter Aluminum, Aluminum, Arsenic, To Barium, To Calcium, To Cadmium, Cobalt, Tota Copper, Tot	Dissolved  tal  tal  tal  Total		Result  N.D.  2 mg
Coliform, Total Conductivity Cyanide, Free Cyanide, Total Fluoride, Hardness, Total M.B.A.S.	Chromium, Chromium, Chromium, Gold, Total Iron, Total Iron Dissolv Lithium Tot Lead, Total	Total Dissolved Hexavalent	· · · · · · · · · · · · · · · · · · ·	И.Р.
trate, Total Nitrite, Total Nitrogen, Total Oil and Grease, Total pH—at 20° Phenolics Phosphorus, Ortho Phosphorus, Poly Phosphorus, Total	Magnesium, Manganese, Manganese,	Total Dissolved otal al Total otal	-	N.D.
Solids, Settlable Solids, Total Solids Total Dissolved Solids, Total Suspended Solids, Volitile Sulfate, Total Gravametric Sulfate Total Titration Sulfide Total Sulfite Total Sulfite, Total	Sodium, Total Tin, Total Zinc, Total L. T.—I			.02 00

and will be held confidential by this Firm.

We certify that the above results were obtained using Procedures appropriate for the samples analyzed as required by various regulatory bodies. The above results are the sole property of the Listed Customer

Date 4/20/84 Signed

### R. D. 2 Box 282A BROCKWAY, PENNSYLVANIA 15824

[814] 265-1122

SAMPLE DESCRIPTION	#2			I. D. No.	
DATE SAMPLED 2/17	n-0	2/29	1984	_DATE REC	EIVED 2/13-3/29
Parameter		Result	Parameter		Result
Acidity, Total Cold			Aluminum,		
Acidity, Total Hot			Aluminum,		
Alkalinity, Total			Arsenic, Tot		H.D.
Ammonia, Total	-		Barium, Tot		242
Biological Oxygen Demand			Calcium, Tot		-
Chemical Oxygen Demand			Cadmium, T		1001 001
Chloride, Total	-		Cobalt, Tota		
liform, Fecal	******		Copper, Tota		
Coliform, Total			Chromium,		H.D.
Conductivity	****		Chromium,		
Cyanide, Free			Chromium, Gold, Total	nexavalent	
Cyanide, Total					
Fluoride,			Iron, Total Iron, Dissolv	3	
Hardness, Total	-		Lithium Tota		-
M.B.A.S.			Lead, Total	au	
Nitrate, Total	-		Magnesium,	Total	H.D.
Nitrite, Total	***		Manganese,		
Nitrogen, Total			Manganese,		****
Oil and Grease, Total			Mercury, To		
pH—at			Nickle, Tota		H.D.
Phenolics	***************************************		Potassium, "		
Phosphorus, Ortho			Selenium, To		
Provinces, Poly	·		Silicon, Tota		1.4 mal
Phosphorus, Total			Silver, Tota		5/ 1.
Solids, Settlable	No.		Sodium, Tot		0670/
Solids, Total	*******		Tin, Total	en.	
Solids Total Dissolved	-	-	Zinc. Total		Million Control of the Control of th
Solids, Total Suspended			2220, 2000		***
Solids, Volitile	-		I. T.—I	ess than	
Sulfate, Total Gravametric				Not Detected	
Sulfate Total Titration	-			.,	
Sulfide Total	***************************************				Military Commission Co
Sulfiite Total	-				
Sulfur, Total	******				

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American Chemical Society
American Institute of Chemical Engineers
National Association of Corrector Total

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[814] 265-1122

REPORT OF ANALYTICA	L RESUL	TS:					
CUSTOMER POWER	math	L Phou	cTs 12c	DATE	4/20	184	
SAMPLE DESCRIPTION	#3			I. D. No.			
DATE SAMPLED 213	n-v	3/29	1984	_DATE RE	CEIVED	2/13-	7/29
Parameter		Result	Parameter			Re	sult
Acidity, Total Cold			Aluminum,	<b>Total</b>			
Acidity, Total Hot			Aluminum,	Dissolved			
Alkalinity, Total			Arsenic, Tot			H.D.	•
Ammonia, Total			Barium, Tot			.4.	m
Biological Oxygen Demand		-	Calcium, Tot				7
Chemical Oxygen Demand			Cadmium, T			.10=	LMal
Chloride, Total			Cobalt, Total	1			V
Coliform, Fecal			Copper, Tota				
Coliform, Total			Chromium,			,220	mal
Conductivity			Chromium,				7
Cyanide, Free			Chromium, 1	Hexavalent			
Cyanide, Total			Gold, Total				
Fluoride,			Iron, Total				***************************************
Hardness, Total			Iron, Dissolv				
M·B.A.S.			Lithium Tota	a.l			
Nitrate, Total			Lead, Total			1.30	Mal
Nitrite, Total			Magnesium,				
Nitrogen, Total			Manganese,				
Oil and Grease, Total			Manganese,				
pH—at			Mercury, To			N,D	
Phenolics	************		Nickle, Tota				
Phosphorus, Ortho			Potassium,				
Phosphorus, Poly	-		Selenium, To			1.4	170 L
Phosphorus, Total	· ·		Silicon, Tota				
Solids, Settlable	***************************************		Silver, Total		,	, 245	19
Solids, Total			Sodium, Tot	al			<b>V</b> ·
Solids Total Dissolved			Tin, Total				
Solids, Total Suspended			Zinc, Total				
Solids, Volitile			1 T T	<del>41</del>			
Sulfate, Total Gravametric				ess than Not Detected	a		
Sulfate Total Titration			N. D	MUL DERECKE	u		
Sulfide Total							
Sulfiite Total							
Sulfur, Total					-		

We certify that the above results were obtained using Procedures appropriate for the samples analyzed as required by various regulatory bodies. The above results are the sole property of the Listed Customer and will be held confidential by this Firm.

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